

AMENDMENTS TO THE SPECIFICATION

IN THE SPECIFICATION:

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Please amend the paragraph beginning at line 19 of the IPER Amended Sheets, through page 4, line 27 of the IPER Amended Sheets, as follows:

According to the invention, there is provided, in a first aspect, a method for enhancing the performance capability of an existing wet type natural draft cooling tower, wherein the cooling tower:

(a) is adapted including by size and cooling capacity in natural draft operation for use as a natural draft cooling tower in electric power generating station application,

(b) includes a structure defining an internal passage of circular cross-section for the upward convectional flow of an air stream therein from air inlet openings at or near a lower part of the structure to an outlet opening at the top of the structure, and

(c) contains heat transfer means in a lower part of said passage for transferring heat from water supplied to said cooling tower to said air,

and wherein said method includes the steps of:

providing within said passage an impeller adapted when rotated at a specified speed about an upright axis of rotation centrally located in said passage in a specified operating condition of said tower to increase the flow rate of air in the passage beyond an overall flow rate obtainable in identical operating conditions by natural draft alone, wherein said impeller when rotating at said specified speed spans substantially the entire diameter of said passage at the

height of the periphery of said impeller save for a suitable operating radial clearance between said impeller and an internal surface of said passage;

providing support means adapted for supporting said impeller within said passage above said heat transfer means; and

providing drive means capable of rotating said impeller at said specified speed.

In a second aspect of the invention, there is provided apparatus for enhancing the performance of a wet type natural draft cooling tower, said apparatus being adapted to use in a cooling tower that:

(a) is adapted including by size and cooling capacity in natural draft operation for use as a natural draft cooling tower in electric power generating station application,

(b) includes a structure defining an internal passage of circular cross-section for the upward convectional flow of an air stream therein from air inlet openings at or near a lower part of the structure to an outlet opening at the top of the structure, and

(c) contains heat transfer means in a lower part of said passage for transferring heat from water supplied to said cooling tower to said air,

and said apparatus including:

an impeller adapted when rotated at a specified speed about an upright axis of rotation centrally located in said passage in a specified operating condition of said tower to increase the flow rate of air in the passage beyond an overall flow rate obtainable in identical operating conditions by natural draft alone, wherein said impeller when rotating at said specified speed spans substantially the entire diameter of said passage at the height of the periphery of said

impeller save for a suitable operating radial clearance between said impeller and an internal surface of said passage;

support means adapted for supporting said impeller within said passage above said heat transfer means, and

drive means capable of rotating said impeller at said specified speed.